



Department of the Environment  
Vehicle Emissions Inspection Program

# Training Class Information

## Course Descriptions for October 2016 Training

**Dates :** *October 21st or October 22nd– 9:00 am – 5:00 pm*

**Location:** *Lincoln College of Technology – Columbia, MD*

### ***Variable Valve Timing/Variable Cam Timing (VVT/VCT): Operation, Fault Diagnosis & Repair Verification (4hrs)***

This workshop will detail operation and diagnosis of common VVT/VCT . Components, description of operation, and manufacturer recommended diagnosis will be covered. Additionally monitoring strategies and readiness monitors applicable to VVT/VCT will be identified. Supporting lab exercises are designed to clarify operation and diagnosis of VVT/VCT systems.

**Course Focus:**

- VVT/VCT Monitoring Requirements
- VVT/VCT Systems, Monitoring strategies, and Operation
- VVT/VCT System and Component DTC's
- VVT/VCT Diagnosis and Repair Verification

### ***Direct Injection: Operation, Fault Diagnosis & Repair Verification (4hrs)***

This workshop will detail operation and diagnosis of Direct Injection systems. Components, description of operation, and manufacturer recommended diagnosis will be covered. Additionally monitoring strategies and readiness monitors applicable to direct injection systems will be identified. Supporting lab exercises are designed to clarify operation and diagnosis of direct injection systems.

**Course Focus:**

- Direct Injection Monitoring Requirements
- Direct Injection Systems, Monitoring strategies, and Operation
- Direct Injection System and Component DTC's
- Fail Safe Operation
- How to Safely Work Around and Disable the High Pressure Fuel System
- Direct Injection Diagnosis and Repair Verification

Please contact Margie Wise with MDE to register for this course. She may be reached at (410) 537-3197 or by e-mail [margie.wise@maryland.gov](mailto:margie.wise@maryland.gov). **The same material will be covered both days.** For directions to the Lincoln College of Technology, 9325 Snowden River Parkway, Columbia, Md 21046 or call (410) 290-7100 or please visit the following website . [Directions](#)